

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
8 January 2004 (08.01.2004)

PCT

(10) International Publication Number
WO 2004/003238 A1

- (51) International Patent Classification: **C14C 3/16**, D06P 3/32, 1/52
- (21) International Application Number: **PCT/EP2003/050230**
- (22) International Filing Date: **16 June 2003 (16.06.2003)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
1125/02 **28 June 2002 (28.06.2002)** **CH**
1872/02 **7 November 2002 (07.11.2002)** **CH**
- (71) Applicant (*for all designated States except US*): **TFL LEDERTECHNIK GMBH [DE/DE]**; Im Schwarzenbach 2, 79576 Weil am Rhein (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **FENNEN, Jens [DE/DE]**; Stückweg 1, 79639 Grenzach-Wyhlen (DE). **HERRMANN, Wolfgang [DE/DE]**; Johann-von-Weerthstrasse 21, 79100 Freiburg (DE). **QUENNET, Edith [DE/DE]**; Im Sonnengarten 5, 79592 Fischingen (DE).
- (74) Agent: **MAUE, Paul Georg**; Solvias AG, Patents, WKI-402.4.260 Klybeckstrasse 191, CH-4002 Basel (CH).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SI, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— *with international search report*
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: **PROCESS AND AUXILIARIES FOR THE TREATMENT OF ORGANICALLY TANNED LEATHER**

(57) **Abstract:** Organic polyamines having at least three amino groups in the molecule, or mixtures or reaction products (1) of such polyamines with (2) at least one alkylsilane having organic oxy radicals bonded to the silicon atom and a functional group bonded to the alkyl group, so that said reaction products have at least two free amino groups in the molecule, said functional group forming a covalently bonded bridging group with an amino group of the polyamine, are suitable as cationic auxiliaries in the finishing of leathers and skins, pretanned with dialdehydes and retanned with organic tanning agents, with anionic auxiliaries, such as, for example, anionic dyes.

WO 2004/003238 A1